

ANTONOV, A. A.

Equipment for the dispersed color method of dyeing loose viscose
fibers. Khim.volok. no.3:62-65 '59. (MIRA 12:11)

1. Klin'skiy kombinat.
(Klin--Dyes and dyeing--Rayon)

ANTONOV, A.A.

The BU-75Br drilling unit. Biul.tekh.-ekon.inform. no.12:3-4
'59. (MIRA 13:4)

(Boring machinery)

MARKHASIN, E.L. [deceased]; ANTONOV, A.A.; LYUMIRSKAYA, N.G.

Wear of carbon and alloy steels from friction with an abrasive
monolith. Trudy MINKHIGP no.34:69-78 '61. (MIRA 14:12)
(Steel--Testing)

ANTONOV, A.A.

Method and some results of testing iron and steel for wear with
abrasive air jets. Trudy MINKHIGP no.34:79-95 '61.

{Steel--Testing)
{Iron--Testing)

(HIRA 14:12)

S/169/63/000/002/069/127
D263/D307

AUTHOR: Antonov, A. A.

TITLE: On the hydrogeochemical methods of prospecting for copper-nickel sulfide deposits in Kol'skiy Peninsula

PERIODICAL: Referativnyy zhurnal, Geofizika, no. 2, 1963, 10, abstract 2D62 (Razvedka i okhrana nedr., 1962, no. 3, 15-19)

TEXT: Hydrogeochemical studies were carried out in the central part of Kol'skiy Peninsula and the basin of the Tsaga River. The background values of Cu and Ni are practically zero in these regions, so that the presence of any amounts of these elements in the waters may be regarded as anomalous. The magnitudes of the discovered anomalies do not exceed tens to a few hundred meters, so that a dense sampling network should be used, with sampling intervals of, ideally, 200 m. To increase prospecting efficiency it is necessary to determine the macroelements, particularly Mg^{2+} and

Card 1/2

On the hydrogeochemical ...

S/169/63/000/002/069/127
D263/D307

Ca²⁺, the ratio of which may be used as a direct hydrochemical index of the presence of underlying ultrabasic and basic eruptive rocks, and an indirect indicator of Cu-Ni sulfide ores. Magnitudes of the hydrochemical dispersion aureoles of Mg²⁺ and Ca²⁺ reach 1000 m. Under the conditions of the Kol'skiy Peninsula the hydrogeochemical method may be successfully used in the assessment of the perspectives of individual nickel-bearing areas, and in regional prospecting for deep-lying Cu-Ni deposits. [Abstracter's note: Complete translation.]

Card 2/2

VINOGRADOV, V.N.; ANTONOV, A.A.

Certain problems involved in the wear of metals in abrasive air
flow. Trudy MINKHIGP 46:137-149 '64. (MIRA 17:6)

L 25367-65 EWT(m)/EWP(w)/EWA(d)/T/EWP(t)/EWP(b) JD/EM
ACCESSION NO: AR5005071 S/0277/64/000/011/0005/0005

SOURCE: Ref zh. Mashinostroitel'nyye materialy, konstruktsei i raschet detaley
mashin. Otd. vyp., Abs. 11.48.28

AUTHOR: Vinogradov, V. N.; Antonov, A. A.

TITLE: Some problems of metal wear in abrasive air streams

CITED SOURCE: Tr. Mosk. in-t neftekhim. i gaz. prom-sti, vyp. 46, 1964, 137-149

TOPIC TAGS: wear resistance, abrasion, airstream, angle of attack

TRANSLATION: The design and a description are given for a device which has been planned to test for wear caused by abrasive air jets. The kinetics of the interaction between the abrasive air stream and a flat surface were studied in relationship to the angle of attack, and the dynamics of the contact were also considered. It is pointed out that there are two mechanisms for the process of wear by an abrasive air stream as a function of the angle of attack: impact wear (at relatively large angles of attack) and impact-sliding wear (at relatively small angles). The relationship between the intensity of wear and the angle of attack, which has the form of a curve with a region of inflection, is explained by these

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L 25367-65

ACCESSION NR: AR5005071

mechanisms of the wear process. The wear resistance of steels depends to a great extent on their hardness. In the case of impact-sliding wear, particularly at small angles of attack, hardness increases the resistance of the steel to wear of this type. Within the range of angles which correspond to the impact process, hardness and brittleness lower the resistance to wear.

SUB CODE: MM, ME

ENCL: 00

Card 2/2

ANTONOV, A.A.

Zoning gasifiable coal deposits according to geological and hydrogeological criteria in the southern horn of the Moscow Basin.
Podzem.gaz.ugl. no.3:55-58 '57. (MIRA 10:11)

1. Moskovskiy gosudarstvennyy universitet.
(Moscow Basin--Coal mines and mining)

ANTONOV, A.A.

Effect of geological and hydrogeological conditions on the quantity and quality of gas obtained by underground gasification of Moscow Basin coal. Podzem.gaz.ugl. no.4:17-19 '57. (MIRA 11:1)

1.Podmoskovnaya stantsiya "Podsengas."
(Moscow Basin--Coal gasification, Underground)

ANTONOV, A.A., Cand Geol-Min Sci--(Dis) "Hydrogeologic condition
of brown coal deposits of the central part of the southern wing of
the Pechora-Kovguy basin and their effect on the process of sub-
terranean gasification of coal." Mos, 1958. 21 pp (See Order of
Lenin and Order of Labor Red Banner State Univ. N.Y. Ivanovsov.
Geol Faculty. Chair of Hydrogeology), 112 copies (II, 80-10, 10)

AUTHOR: Antonov, A.A.

IV/5-33-1-13/25

TITLE: The Importance of Geological and Hydrogeological Conditions for the Underground Gasification of the Coal of the Moscow Region (znachenie geologicheskikh i gidrogeologicheskikh usloviy dlya podzemnoy gazifikatsii podmoskovnogo unlya)

PERIODICAL: Byulleten' Moskovskogo obshchestva ispytateley prirody, Otdel geologicheskii, 1958, Vol 33, Nr 1, pp 127-133 (USSR)

ABSTRACT: The author describes the Bascrnitskoye, Gosteyevskoye and Shatskoye brown coal deposits (near the town of Tula) used for the underground gasification process. The study of already exploited sections showed that the largest quantities of gas were extracted from sections where the coal layer was thickest with a small ash content and with thick over- and underlying argillaceous layers. The influence of underground water on the gas producing process is also important. The right amount of water improves the quality of the gas. When this amount is too large, it hampers the burning of coal by adding carbon dioxide to the gas. As a result of detailed geological and hydrogeological survey all these

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195-33-1-13/25
The Importance of Geological and Hydrogeological Conditions for the Under-
ground Gasification of the Coal of the Moscow Region.

deposits were divided in sections more or less favorable for
future gas production. There are 3 diagrams and 2 tables
and 2 Soviet references.

Card 2/2

ANTONOV, A.A., inzh.; YERSHOV, K.V., inzh.

Small perforated rollers for the formation of keramzit granules.
Stroi.mat. 8 no.1:29-30 Ja '62. (MIRA 15:5)
(Keramzit)

ANTONOV, A.A.

Hydrogeochemical method of prospecting for copper and nickel
sulfide deposits on the Kola Peninsula. Razved.i okh.medr 28
no.3:15-19 Mr '62. (MIRA 15:4)

1. Kol'skiy filial AN SSSR.
(Kola Peninsula--Ore deposits) (Geochemical prospecting)

ANTONOV, A.A.

Hydrogeological regionalisation of the central part of the southern
wing of the Moscow coal basin. Biul. MOIP, Otd.geol. 37 no.3:90-
97 My-Je '62. (MIRA 15:10)
(Moscow Basin—Mine Water)

ANTONOV, A.A.

Abrasive gas-flow wear of petroleum equipment and tools.
Mash. i nef't', obr. no.1:21-25 '63. (MIRA 17:1)

1. Moskovskiy institut nef'tekhimicheskoy i gazovoy promysh-
lennosti im. akad. I.M. Gubkina.

KOVAL'CHUK, D.S.; ANTONOV, A.A.

Thermodynamic functions of deuterium and tritium-substituted
tetrahedral hydrides. Ukr.khim.zhur. 30 no.2:169-173 '64.
(MIRA 17:4)

1. Dnepropetrovskiy khimiko-tekhnologicheskij institut i
Leningradskiy pedagogicheskij institut.

ANTONOV, A.A.; KOVAL'CHUK, D.S.; MASLOV, P.G.

Thermodynamic functions of deuterio- and iodo derivatives of
 GeH_4 . Ukr. khim. zhur. 30 no.1:20-24 '64. (MIRA 17:6)

1. Leningradskiy pedagogicheskiy institut i Dnepropetrovskiy
khimiko-tekhnologicheskiy institut.

ANTONOV, A.A.; MASLOV, P.O. (Leningrad)

Thermodynamic properties of some aldehydes, ketones, and carboxylic acids. Zhur. fiz. khim. 38 no.3:600-605 Mr '64.
(MIRA 17:7)

ANTONOV, A.A.

Thermodynamic properties of carbamide and some of its derivatives. Zhur. ob. khim. 34 no.7:2340-2343 JI '64
(MIRA 17:8)

ANNEX, A.A.

So that the following may be used: (1) (S)

(S)

L 41394-55 EPF(c)/EPR/EWP(j)/EWT(m) Pc-4/Pl-4/Pr-4/Ps-4 RPL RM/WW/JW

ACCESSION NR: AR5009695

UR/0058/65/000/002/2002/2002

SOURCE: Ref. zh. Fizika, Abs. 2K12

25
B

AUTHOR: Antonov, A. A.

TITLE: Thermodynamic properties of deuteroderivatives AX_2 and AX_2Y (A = N, P, As, Sb; X, Y = H, D)

CITED SOURCE: Uch. zap. Leningr. gos. ped. in-ta im. A. I. Gertsena, v. 239, 1964, 49-52

TOPIC TAGS: specific heat, entropy, enthalpy, thermodynamic potential, deuteroderivative

TRANSLATION: The specific heat C_p , the entropy, the reduced isobaric-isothermal potential, and the reduced enthalpy are calculated for NH_2D , NHD_2 , FH_2D , PHD_2 , AsH_2D , $AsHD_2$, SbH_2D , and $SbHD_2$ in the temperature interval 298.2--1000K for the ideal gas state. The calculations are made in the harmonic-oscillator and rigid-

Card 1/2

L 41394-65

ACCESSION NR: AR5009695

rotator approximations; the accuracy of the results is within 0.1--0.5%.

SUB CODE: II, GP

ENCL: 00

CC
Card 2/2

ANTONOV, A.A.

Thermodynamic properties of deuterium-tritium and halo derivatives
of PH_3 and AsH_3 . Zhur. fiz. khim. 38 no. 7:1713-1717 J1 '64.
(MIRA 18:3)

1. Leningradskiy gosudarstvennyy pedagogicheskiy institut.

ANTONOV, A.A.

Chemical composition of the waters of the Khibiny alkali massif.
Bibl. MOIP. Otd. geol. 39 no.2:104-113 Mr-Ap '64.

(MIRA 19:1)

L 44434-56 EWT(m)/EWP(j)/EWP(t)/ETI IJE(c) JD/WJ/JW/RM
ACC NR: AR6023277 SOURCE CODE: UR/0058/66/000/003/E002/E002

67
B

AUTHOR: Antonov, A. A.

ORG: none

TITLE: Thermodynamic functions of AsH₃ deuterium and tritium derivatives

SOURCE: Ref zh. Fizika, Abs. 3E14

REF SOURCE: Uch. zap. Leningr. gos. ped. in-ta im. A. I. Gertsena, v. 266, 1965, 266-269

TOPIC TAGS: deuterium, tritium, arsenic compound, heat capacity, entropy, enthalpy, oscillator, harmonic oscillator, rigid top, top

ABSTRACT: The heat capacity, entropy, reduced enthalpy, and reduced isobaric isothermic potential of AsH₂D, AsH₂T, AsHT₂, AsD₂T, AsDT₂, AsHDT are calculated over the 298.2—1000 k temperature range for an ideal gaseous state. The study is based on the behavior of a harmonic oscillator and a rigid top. The accuracy of the data obtained is about 0.1 to 0.5%. [Translation of abstract] [DW]

SUB CODE: 20, 09/

Card 1/1

Authors: Ulyashov, V. G.; Konstantinov, V. I.; Sokolov, Yu. N.; Antonov, A. N.; Polunin, I. A.

Code: none

Title: An automatic compensation refractometer. Class 42, No. 101177

Source: Izvestiya vuzov, no. 15, 1966, 96

Index Terms: refractometer, optic measurement, measuring instrument, automatic control

Abstract: This Author Certificate presents an automatic compensation refractometer with a differential photoreceiver, an optical compensator, and a coil (see Fig. 2). The design increases the precision of the measurement. The compensator in the refractometer is a lens compensator, consisting of an objective lens, two negative lenses, and a positive lens which moves in a plane perpendicular to the optical axis

Card 1/2

UDC: 535.322.1.

L 34811-66 ENT(1) SCTB DD

ACC NR: AP6021805

SOURCE CODE: UR/0413/66/000/012/0073/0074

INVENTOR: Antonov, A. A.; Yevteyev, K. M.; Utyamyshev, R. I.

32
B

ORG: none

TITLE: Bipolar preamplifier of bioelectric potentials². Class 30, No. 182850

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 12, 1966, 73-74

TOPIC TAGS: bioelectricity, bioelectric potential, preamplifier, neurophysiology,
BIOELECTRIC PHENOMENON

ABSTRACT: An Author Certificate has been issued for a bipolar preamplifier of bioelectric potentials consisting of two transistorized amplifier stages and a power

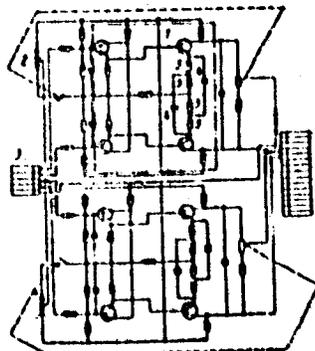


Fig. 1. Bipolar preamplifier

- 1 - Transistorized amplifier stages;
- 2 - power source; 3 - galvanic input;
- 4 - condensers; 5 - emitter loads.

Card

1/2

UDC: 615.471:612.014.423

L 47504-66
ACC NR: AF6032400

(A)

SOURCE CODE: UR/0413/66/000/017/0053/0053

INVENTOR: Ulyanyshev, R. I.; Chastukhin, B. S.; Yevteyev, K. M.; Antonov, A. A.;
Mel'nikov, Ye. N.

ORG: none

TITLE: Device for recording electroplethysmograms. Class 30, No. 185435

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 17, 1966, 53

TOPIC TAGS: electroplethysmograph, diagnostic medicine, plethysmography, human physiology, cardiovascular system, cardiology

ABSTRACT: An Author Certificate was issued for an electroplethysmogram recorder incorporating transistorized amplifiers, demodulators, filters, and a stabilized power source. For more reliable performance and to permit the separate and simultaneous recording of pulse waves and complex tissue resistance over long periods without readjustment, the recorder includes a stabilized carrier-frequency generator and a measuring circuit. The latter consists of the secondary coil of the emitter amplifier.

Card 1/2

UDC: 615.47:616. .073.173

L 41504-66
ACC NR: AP6032498

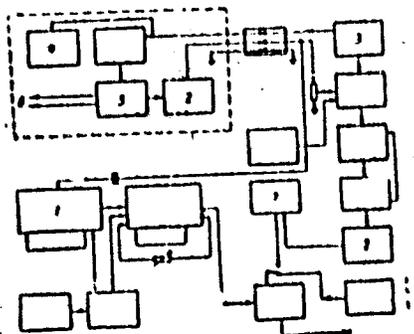


Fig. 1. Device for recording electro-plethysmograms

1 - Electronic amplifiers; 2 - demodulators with filters; 3 - stabilized rectifier; 4 - stabilized generator; 5 - measuring circuit; 6 - leads; 7 - silicon stabilitron.

and the primary coil of the output amplifier, to which the leads are attached. A silicon voltage stabilizer eliminates artifacts caused by tissue changes in the vicinity of the leads. Orig. art. has: 1 figure. [DP]

SUB CODE: 06/ SUBM DATE: 23Jan65/ ATD PRESS: 5095

Cord 2/2

ANTONOV, A.A.; MALYSHEV, M.D.

Internally microartesian basins in the crystalline massif. Sov. geol.
8 no.5:129-131 My '65. (MIRA 18:7)

1. Geologicheskii institut Kol'skogo filiala AN SSSR.

Category : USSR/General Problems - Problems of Teaching

A-3

Abs Jour : Ref Zhur - Fizika, No 3, 1957, No 6574

Author : Antonov, A.F.

Title : Extra-curricular work in physics

Orig Pub : Spednoye s pots. obrazovaniye, 1956, No 6, 23-25

Abstract : Report on experimental work performed by the physical-technical student organization in the Kazan' Technical School for Motion Pictures.

Card : 1/1

ANTONOV, Anatoliy Fedorovich; GLADKOV, V.A., red.; SYCHEVA, V.A.,
tekhn. red.

[Your new home, northerner; how the cities and villages of
Murmansk Province will develop] Tvoi novyi dom, severianin;
kak budut zastraivat'sia goroda i poselki Murmanskoi oblasti.
Murmansk, Murmanskoe knizhnoe izdatel'stvo, 1961. 58 p.

(MIRA 16:5)

(Murmansk Province--Building)

ARENDS, V.F.; ATSYUKOVSKIY, A.G.; KRAMARENKO, L.S.; FEDOTOVSKIY, A.P., red.;
ANTONOV, A.F., arkhitektor, spets. red.; BARANOV, I.A., tekhn. red.

[Handbook for the young construction worker] Spravochnik mladogo
stroitelia. Murmansk, Murmanskoe knizhnoe izd-vo, 1961. 367 p.
(MIRA 14:11)

(Building)

ANTONOV, A.O.

Conference on problems of designing and using sludge plants and
purifying sludge water. Vod. 1 ser. tekhn. 1 no.1:33-34 Ap'55.
(Sewage) (MLRA 8:11)

ANTONOV, A.G.

Design of ore dressing tailings disposal plants made by the State
Planning Institute for Water, Sewerage and Hydraulic Structures.
Trudy Mekhanobr. no.93:67-78 '56. (MIRA 11:6)
(Ore dressing--Equipment and supplies)

YEVDOKIMOV, P.D.; ANTONOV, A.G.; ZAKHVATKIN, V.K.

Closing statements made by the reporting members, Trudy Mekhanobr.
no.93:174-188 '56. (MIRA 11:6)
(Ore dressing) (Waste products)

KEL'SHTEYN, L.Ya.; ANTONOV, A.G.; SHAMTSIYAN, G.G.

Hygienic evaluation of results obtained with a ventilation unit
for schools. Gig.i san. 26 no.3:39-45 Mr '61. (MIRA 14:7)

1. Iz Moskovskogo gorodskoy sanitarno-epidemiologicheskoy stantsii
i Instituta sanitarnoy tekhniki Akademii stroitel'stva i arkhitektury
SSSR.

(SCHOOLHOUSES—HEATING AND VENTILATION)

ANTONOV, A.I.; GORBUNOVA, R.L.

Pneumatic apparatus for treating bones and taking skin transplants
in surgical operations. Trudy NIIKHAI no.5:236-238 '61.
(MIRA 15:8)

1. Iz Tsentral'nogo instituta travmatologii i ortopedii
Ministerstva zdavookhraneniya SSSR.
(SURGICAL INSTRUMENTS AND APPARATUS)

ANTONOV, A.I. (Kiyev, Svyatoshino, ul. Sovkhoz'naya, d. 8)

Treating chemical burns in outpatients by excision of necrotic tissue.
Nov.khir.arkh. no.3:63-64 My-Je '57. (MLRA 10:8)

1. Khirurgicheskiy kabinet med.san. chasti Krivorozhskogo rudnika
imeni Kaganovicha Dnepropetrovskoy obl.
(BURNS AND SCALDS)

SYRDLOV, D.G., prof.; ANTONOV, A.I., inzh.

Tent screen attached to a bed for use in examining the bottom of
the eye. Oft.shur. 14 no.6:368-369 '59. (MIRA 13:4)

1. Is Tsentral'nogo instituta travmatologii i ortopedii Minsdrava
SSSR (direktor - deystvitel'nyy chlen AMN SSSR prof. N.N. Priorov).
(MYE--EXAMINATION)

SKRIPNICHENKO, D.F. (Kiyov, ul. Gospital'naya, d.2, kv.94); ANTONOV, A.I.

Case of resection of a goiter of the accessory thyroid gland situated
in the posterior mediastinum. Nov. khir. arkh. no.5;107-109 9-0 '60.
(MIRA 14:12)

1. Kafedra khirurgii II (ispolnyayushchiy obyasnosti zaveduyushchego
- prof. D.F.Skripnichenko) Kiyevskogo institut usovershenstvovaniya
vrachey i Kiyevskogo oblastnaya bol'nitsa.
(GOITER) (THYROID GLAND--SURGERY)

ANTONOV, A.I.

Electric tube furnace. Patent U.S.S.R. 78,954, Dec. 31, 1949.
(CA 47 no.19:9830 '53)

ANTONIOV A I

ANTONOV, A.I., inzhener; KARPINSKIY, V.N., inzhener.

Burning of wooden stoppers in turbine condenser pipes. Elek.
sta. 25 no.10:52 O '54. (MLBA 7:11)
(Steam turbines)

POLEKHIN, Sergey Illarionovich; SHELEKHES, A.M., retsenzent; BOSOM, M.D.,
retsenzent; KHERN, K.D., retsenzent; ANTONOV, A.I., otv.red.;
KIRILLOV, L.M., red.; MARKOCH, K.G., tekhn.red.

[Theory of wire communications] Teoriia svyazi po provodam.
Moskva, Gos.isd-vo lit-ry po voprosam svyazi i radio, 1960.
461 p. (MIRA 13:7)

(Telephone)

(Telegraph)

ANTONOV, A.I., general armii

This friendship grows and becomes stronger. Starsh.-serzh.
no.5:4 My '62. (MIRA 15:6)

(Warsaw pact, 1955)

KRUOLIKOV, S.S.; KUDRYAVTSEV, N.T.; VOROBIEVA, G.F.; ANTONOV, A.I.

"On the Mechanism of the Action of Levelling Agents in the Electrodeposition of Metals."

Report presented at the 14th meeting CITCE, Intl. Comm. of Electrochemical Thermodynamics and Kinetics, Moscow, 19-25 Aug 63.

Mendeleev Chemico-Technological Institute, Moscow, U.S.S.R.

ANTONY, A.I.

Scientific technological societies and standardization.
Standartizatsia 29 no.4:13 Ap '65.

(NIRA 18:7)

KAZMIN, A.I., starshiy nauchnyy sotrudnik; GORBENOVA, N.I., starshiy nauchnyy sotrudnik; ANTONOV, A.I.

Our experience in the use of a brace of the Milwaukee type.
Ortop., travm. i protez. 26 no.4:73-75 Ap '65.

(MIRA 18:12)

1. Iz Tsentral'nogo instituta travmatologii i ortopedii (dir. - chlen-korrespondent AMN SSSR prof. M.V. Velkov). 2. Vedushchiy konstruktor Tsentral'nogo instituta travmatologii i ortopedii (for Antonov). Adres avtorov: Moskva A-299, ul. Pridorova, dom 10, Tsentral'nyy institut travmatologii i ortopedii.

CHURBAEV, G.I., AVDEYEV, B.D., TATYANOVNA, E.T., ANTONOV, A.K.

Manganese Oxide.

Retarding action of gaseous reaction products on the rate of reduction of manganese oxide with hydrogen and carbon monoxide. Zhur. fiz, khim 16, No. 6, 1952

Monthly List of Russian Accessions. Library of Congress. November 1952. Unclassified.

PAVLOV, V.A., kandidat tekhnicheskikh nauk, dotsent; TUNIMANOV, A.Z., inzhener;
~~ANTONOV, A.F.~~, inzhener; GUSHCHINA, L.M., inzhener; RIVKIN, S.S.,
 doktor tekhnicheskikh nauk; SAYDOV, P.I., kandidat tekhnicheskikh nauk
 dotsent; PEL'POR, D.S., doktor tekhnicheskikh nauk, professor; RYABOV,
 B.L., doktor tekhnicheskikh nauk, professor; TIKHMENEV, S.S., doktor
 tekhnicheskikh nauk, professor; FRIDLKNDER, G.O., doktor tekhnicheskikh
 nauk, professor; CHISTYAKOV, N.I., doktor tekhnicheskikh nauk, profes-
 sor.

Can V.A. Pavlov's book "Aircraft gyroscope instruments" be recommended
 for use as a textbook? Priboroostroenie no.1:29-31 Ja '57.

(MIRA 10:4)

1. Chlen pravleniya Leningradakogo otdeleniya nauchnogo inzhenerno-
 tekhnicheskogo obshchestva priborostritel'noy promyshlennosti (for
 Tunimanol).
2. Chlen pravleniya Vsesoyuznogo nauchnogo inzhenerno-
 tekhnicheskogo obshchestva priborostritel'noy promyshlennosti (for
 Gushchina)
3. Moskovskoye Vysshaye tekhnicheskoye uchilishche imeni
 Baubana (for Pel'por, Tikhmenev).
4. Moskovskiy aviatsionnyy institut
 imeni Serge Ordshonikidse (for Ryabov).
5. Voenno-vozdushnaya in-
 shenernaya akademiya imeni N.Ye. Zhukovskogo (for Chistykov)
 (Gyroscope)

27 4000

21386
S/194/61/000/009/038/053
D256/D302

AUTHOR: Antonov, A.K., Vasilevskiy, N.N., Naumenko, A.I.
and Sazonov, S.Ya.

TITLE: Pressure and volume-pulse recording by a tensometric method

PERIODICAL: Referativnyy zhurnal. Avtomatika i radioelektronika, no. 9, 1961, 6, abstract 9 E45 (Fiziol. zh. SSSR, 1961, 47, no. 2, 275-279)

TEXT: The absolute values of the pressure and its rapid as well as slow variations can be measured for medical purposes by the tensometric methods. For the pressure measurements a special unit was devised consisting of two hermetically enclosed halves divided by the sensing membrane. A capsule or a hypodermic needle for sensing the pressure respectively in a cavity or inside a blood vessel were connected to the bottom part of the unit filled with a liquid. In the top part constantan stress-gauges of 200 - 300 ohm

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Pressure and volume-pulse...

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S/194/61/000/009/038/053
D256/D302

resistance were glued to the membrane. For volume-pulse measurements the unit consisted merely of the top part with the sensing membrane, and it was used by placing it in contact with the skin at the projection of an artery. A TCY-2 (TSU-2)-type multichannel tensometric unit was employed to amplify the signals so that several physiological processes could be recorded simultaneously. A carrying frequency of 3500 cs/sec from a R-C generator is used for amplification in each channel. The amplified signals rectified and filtered were displayed on a MFO-2 (MPO-2)-type oscillograph, the sensitivity of the instrument being adjustable. For calibration mercury or water manometers were used according to the purpose. The described instruments are suitable for absolute measurements of the following pressures: arterial, venous, intra-ocular; and for recording pulses: temple, somnous, radial, thigh, knee and intra-abdominal and also for recording their rapid and slow variations. The apparatus is comparatively simple in operation. 4 references.
[Abstracter's note: Complete translation]

Card 2/2

ANTONOV, A.K.

Mechanization and automation of production processes in the
Leningrad Economic Region. Mekh.i avtom.proizv. 16
no.11:5-12 N 162. (MIRA 15:12)

1. Predsedatel' Leningradskogo soveta narodnogo
khoz'yaystva.
(Leningrad Economic Region--Technological innovations)
(Automation)

ANTONOV, Aleksey Konstantinovich; LEPIN, A.E., red.; PRESNOVA,
V.A., tekhn. red.

[Industrial potentials into action!] Rezervy promyshlen-
nosti - v doistvie! Leningrad, Lenizdat, 1963. 134 p.
(MIRA 17:3)

L 10709-65

ACCESSION NR: AP4044248

face which does not require any additional cleaning. The molds are resistant to thermal shock. When preheated to 600C, the mold yields easily under the pressure of the shrinking castings and does not deform. Castings cast into these molds have the same characteristics as articles cast into conventional molds but with increased toughness and fatigue strength. Orig. art. has 2 pages.

ASSOCIATION: none

SUBMITTED: 00

ATD PRESS: 3115

ENCL: 00

SUB CODE: MM, IE

NO REF SOV: 007

OTHER: 001

Card 2/2

ANTONOV, A.L.

Fog formation in the Chernovtsy Airport region. Trudy Ukr. NIIMI
no.7:131-138 '57. (MIRA 11:4)
(Chernovtsy--Fog)

ANTONOV, ASPARUKH M.

Elektroiskrova obrabotka na metalite (Elektroetozia). Sofia, 1958. 52 p.
(Institut za ratsionalizatsia. Nauchno-tehnicheska biblioteka, no. 3.)
(Cutting metals with an electric arc. Illus.)

SO: East European, L. C. Vol. 2, No. 12, Dec. 1953

Dissertation: "Development of the Principles for Designing and Constructing Highways
in Russia." Cand Tech Sci, Moscow Automobile Highway Inst Ineni V. P. Golotov,
22 Apr 54. (Vechernyaya Moskva, Moscow, 13 Apr 54)

SC: LHM 243, 19 Oct 1954

ANTONOV, A.M., kand.tekhn.nauk

Development of pavement construction. Trudy MADI no.22:286-290
'58. (MIRA 12:4)

(Pavements)

ANTONOV, Aleksandr Mikhaylovich; KRONSHTEYN, L.A., red.; OLEYNIK, L.K., red.; SHVETSOV, S.V., tekhn. red.

[Organization and planning of road construction; "Construction finance plan of a road building organization" for the special course in "Construction and maintenance of automobile roads."] Organizatsiia i planirovanie dorozhnogo stroitel'stva; "Stroifinplan dorozhno-stroitel'noi organizatsii" dlia spetsial'nosti "Stroitel'stvo i ekspluatatsiia avtomobil'nykh dorog." [n.p.] Rosvuzizdat, 1963. 93 p.
(MIRA 17:3)

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20.211

30567

S/198/61/007/006/005/008
D299/D301

AUTHORS: Antonov, A, M. and Sidlyar, M. M. (Kyyiv)

TITLE: Approximate solutions to the problem of hypersonic flow past slender bodies

PERIODICAL: Prykladna mekhanika, v. 7, no. 6, 1961, 649-655

TEXT: Hypersonic flow at Mach numbers $M = 16-20$ is considered. The problem is solved in the second approximation which permits a more exact description of the body surface and of the pressure distribution. The solution is expressed in series in the small parameter τ , related to the relative thickness of the body. A numerical example of flow past a wedge is considered. After computations, formulas are obtained for the conservation laws, the continuity equation and the second law of thermodynamics. The dimensionless coordinates

$$x = \bar{x}; \quad y = \tau \bar{y}; \quad z = \tau \bar{z} \quad (2.1)$$

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D299/D301

Approximate solutions to ...

are introduced and the first-approximation equations obtained. In the second approximation, a system of 5 equations is derived, the first of which is

$$u_0 \frac{\partial u_0}{\partial x} + \frac{\partial u_1}{\partial x} + v_0 \frac{\partial u_1}{\partial y} + v_1 \frac{\partial u_0}{\partial y} + w_0 \frac{\partial u_1}{\partial z} + u_1 \frac{\partial w_0}{\partial z} - \frac{\rho_1}{\rho_0} \frac{\partial P_0}{\partial x} + \frac{1}{\rho_0} \frac{\partial P_1}{\partial x} = 0, \quad (3.1)$$

where ρ is the density, P - the pressure. For the plane problem, the obtained equations are simplified, whereby the stream function in the second approximation is given by the expression

$$\psi = \psi_0 + \psi_1 \quad (4.8)$$

As a numerical example, hypersonic flow past a wedge is considered.

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Approximate solutions to ...

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D299/D301

The first-approximation equations are solved by D. Van Dyke's method. In the second approximation, one obtains for plane flow:

$$v_1 = -\frac{2}{\alpha+1}(\bar{\Phi}'_1)^3; P_1 = -\frac{2}{\alpha+1}(\bar{\Phi}'_1)^4; p_1 = -\frac{(\alpha+1)k^2}{[2 + (\alpha-1)k^2]^2} \quad (5.6)$$

The expression for the pressure coefficient is

$$\frac{C_p}{\tau^2} = 2\left(\frac{2}{\alpha+1} \frac{k^2-1}{k^2} - \frac{2}{\alpha+1} \tau^2\right) \quad (5.12)$$

The magnitude of the angle θ_1 , related to the thickness of the edge in the first approximation, is determined by the condition that the stream function Ψ is the equation of the wedge surface, i.e.

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D299/D301

Approximate solutions to ...

$$\Psi(0) = 0 \text{ for } \theta = \theta_0 + \tau^2 \theta_1 \tag{5.13}$$

Expanding (5.13) in series in τ and retaining terms in τ^2 only, one finally obtains for the thickness 0 the expression

$$0 = \frac{2(k^2 - 1)}{(\kappa + 1)k^2} - \frac{\tau^2}{\kappa + 1} \left[1 + \frac{(\kappa + 1)(k^2 - 1)}{2 + (\kappa - 1)k^2} \right] \tag{5.16}$$

Formulas (5.12) and (5.16) are the solutions to the problem in the second approximation. There are 2 figures, 1 table and 4 references: 2 Soviet-bloc and 2 non-Soviet-bloc. The references to the English-language publications read as follows: D. Hays, F. Protstein, Hypersonic flow theory, Academic Press, 1959; D. Van Dyke, A study of hypersonic small disturbance theory, NACA Rep. No. 1194, 1954.

Card ~~45~~
4/4

Kiev State Univ.

X

10 14 10 1327 2807 2607

21365

S/021/61/000/012/002/011
D251/D305

262114

AUTHORS: Antonov, A. M., and Sidlyar, M. M.

TITLE: On determining the form of a shock-wave in the case of streamlining of thin bodies by a stream of gas

PERIODICAL: Akademiya nauk Ukrayins'koyi RSR. Dopovidi, no. 12, 1961, 1556-1559

TEXT: The problem of the form of a shock-wave in the case of a body streamlined by a gas stream is investigated for high velocities of the gas ($16 \leq M \leq 18$). The solution is constructed by the method of successive approximations, the relative thickness of the body being taken as the small parameter. It is assumed that the boundary conditions may be transferred from a shock wave of a higher approximation to the one determined by the previous approximation. The plane case is considered and the equations of the first and second approximations are found to be

X

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D251/D305

On determining the form ...

$$\frac{\partial u_0}{\partial x} + v_0 \frac{\partial u_0}{\partial y} + \frac{1}{\rho_0} \frac{\partial p_0}{\partial x} = 0$$

$$\frac{\partial v_0}{\partial x} + v_0 \frac{\partial v_0}{\partial y} + \frac{1}{\rho_0} \frac{\partial p_0}{\partial y} = 0$$

$$\frac{\partial \rho_0}{\partial x} + v_0 \frac{\partial \rho_0}{\partial y} + \rho_0 \frac{\partial v_0}{\partial y} = 0$$

$$\frac{\partial}{\partial x} \left(\frac{p_0}{\rho_0} \right) + v_0 \frac{\partial}{\partial y} \left(\frac{p_0}{\rho_0} \right) = 0 \tag{4}$$

where

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On determining the form ...

$$\bar{y} = \bar{F}(\bar{x}), v_0 = \bar{F}' \bar{x} = \frac{d\bar{F}(\bar{x})}{d\bar{x}} \quad (5)$$

$$\begin{aligned} \bar{y} &= B(\bar{x}), \\ u_0 &= -\frac{2}{\kappa+1} \left(B_{0\bar{x}} - \frac{1}{\kappa^2} \right), \\ v_0 &= \frac{2}{\kappa+1} \left(B_{0\bar{x}} - \frac{1}{\kappa^2 B_{0\bar{x}}} \right), \\ p_0 &= \frac{2}{\kappa+1} \left(B_{0\bar{x}} - \frac{\kappa-1}{2\kappa} \cdot \frac{1}{\kappa^2} \right), \\ q_0 &= \frac{\kappa+1}{\kappa-1} \cdot \frac{1}{1 + \frac{2}{\kappa-1} \cdot \frac{1}{\kappa^2 B_{0\bar{x}}}} \end{aligned} \quad (6)$$

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D251/D305

On determining the form ...

$$\bar{B}_{0\bar{x}} = \frac{d\bar{B}_0}{dx} \quad (7)$$

and

$$\left. \begin{aligned} v_1|_{y=\bar{B}_0} &= \left\{ \frac{2}{x+1} \left(\bar{B}_{1\bar{x}} - \bar{B}_{0\bar{x}}^2 + \frac{\bar{B}_{1\bar{x}}}{\bar{B}_{0\bar{x}}} \right) - \frac{\partial v_0}{\partial y} \bar{B}_1 \right\}_{y=\bar{B}_0} \\ u_1|_{y=\bar{B}_0} &= \left(\frac{2}{x+1} \bar{B}_{0\bar{x}} - \frac{\partial u_0}{\partial y} \bar{B}_{1\bar{x}} \right)_{y=\bar{B}_0} - \frac{4}{x+1} (\bar{B}_{0\bar{x}} \bar{B}_{1\bar{x}})_{y=\bar{B}_0} \\ P_1|_{y=\bar{B}_0} &= \left(-\frac{2}{x+1} \bar{B}_{0\bar{x}} - \frac{\partial P_0}{\partial y} \bar{B}_{1\bar{x}} \right)_{y=\bar{B}_0} + \frac{4}{x+1} (\bar{B}_{0\bar{x}} \bar{B}_{1\bar{x}})_{y=\bar{B}_0} \\ Q_1|_{y=\bar{B}_0} &= \left\{ -\frac{\partial Q_0}{\partial y} \bar{B}_1 - \frac{2(x+1)k^2 \bar{B}_{0\bar{x}}}{[(x-1)k^2 \bar{B}_{0\bar{x}} + 2]^2} \left(\bar{B}_{0\bar{x}}^2 - 2 \frac{\bar{B}_{1\bar{x}}}{\bar{B}_{0\bar{x}}} \right) \right\}_{y=\bar{B}_0} \end{aligned} \right.$$

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On determining the form ...

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D251/D305

respectively. Here u, v, w, p, ρ are parameters of the flow, $B(x)$ is the unknown form of the shock-wave and $F(x)$ is the form of the body and

$$\bar{x} = x; \bar{y} = \tau y \quad (2)$$

$$\bar{y} = \tau B(\bar{x}) = \bar{B}(\bar{x})$$

$$\bar{y} = \tau F(\bar{x}) = \bar{F}(\bar{x}) \quad (3)$$

The possibility of applying the assumption of transfer of form in the case of shock-waves of the second and first order was pointed out to the author by V. V. Sychev. The case of a flat wedge was considered as a check on the correctness of the assumptions. Fairly good results were obtained, even for the first approximation. There are 1 figure and 2 references: 1 Soviet-bloc and 1 non-Soviet-bloc. The reference to the English-language publication reads as follows: D. Van-Dyke, Nat. Adv. Com. for Aeronautics, 1194 (1954). λ

Card 5/6

IPATENKO, A.Ya., kand.tekhn.nauk; ANTONOV, A.M., inzh.

Theory and design of surfaceless-types of evaporators. Izv. vys.
ucheb. zav.; energ. 6 no.7:49-55 J1 '63. (MIRA 16:8)

1. Nikolayevskiy korablestroitel'nyy institut imeni admirala
S.O.Makarova. Predstavlena kafedroy sudovykh silovykh ustanovok,
parovykh i gazovykh turbin.

(Evaporating appliances)

ANTONOV, A.M., prof., red.; VOL'FKOVICH, M.P., prof., red.;
ZAKHAROVA, G.N., dots., red.; IVANOV, N.R., dots., red.;
IOFFE, I.L., prof., red.; FOY, A.M., prof., red.;
SHAMARIN, P.I., prof., red.; SHERISHORINA, S.I., prof., red.

[Transactions of the First City Conference of Young Scientists, Medical Section] Trudy Pervoy gorodskoy konferentsii molodykh nauchnykh rabotnikov. Meditsinskaya seksiya. Saratov, Saratovskii meditsinskii in-t, 1963. 295 p. (MIRA 18:5)

1. Gorodskaya konferentsiya molodykh nauchnykh rabotnikov. Meditsinskaya seksiya. 1st, Saratov.

I 62506-68 EWT(1)/EMP(m)/EWT(m)/EMP(w)/EWT(f)/EMP(v)/T-2/EMP(k)/PDS(1)/

Cont. 2/2

EXCERPTA MEDICA Sec.16 Vol.6/3 Cancer March 58

ANTONOV, A.M.

1035. Spontaneous kidney tumours in *Macacus rhesus* monkeys (Russian text) ANTONOV A.M.
South-Eastern Inst. of Microbiol. and Epidemiol., Saratov Vop. Onkol. 1956 (198-200)

A description is given of spontaneous kidney tumours fortuitously discovered in 2
Macacus rhesus monkeys. (1) In a 16-year old female which had died whilst still in

ANTONOV, A.M., professor; KARPEN', G.G.

Work of the Aratov Province Society of Pathoanatomists in 1955.
Ark.pat. 18 no.8:117-118 '56. (MLRA 10:2)
(ANATOMY, PATHOLOGICAL)

ANTONOV, A.M., professor; KARPEN', G.G., assistant

Work of the Saratov Province Medical Society of Pathoanatomists
during 1956. Arkh.pat. 19 no.6:89-92 '57. (MLRA 13:10)

1. Predsedatel' Saratovskogo oblastnogo nauchnogo meditsinskogo
obshchestva patologanatomov (for Antonov). 2. Sekretar' Saratovskogo
oblastnogo nauchnogo meditsinskogo obshchestva patologanatomov (for
Karpel')

(ANATOMY, PATHOLOGICAL)

ANTONOV, A.M., prof.; KARPEL', G.G.

Work of the Saratov Province Society of Pathoanatomists in 1957.
Arkhp.at. 20 no.12:82-84 '58. (MIRA 12:1)

1. Predsedatel' Saratovskogo oblastnogo nauchnogo meditsinskogo obshchestva patologoanatomov (for Antonov). 2. Sekretar' Saratovskogo oblastnogo nauchnogo meditsinskogo obshchestva patologoanatomov (for Karpel').

(SARATOV PROVINCE--ANATOMICAL SOCIETIES)

ANTONOV, A.M.; LUTTS, A.M.

Carcinogenic effects of natural Saratov petroleum. Vop. onk. 6
no. 11:66-70 N '60. (MIRA 14:1)
(PETROLEUM—PHYSIOLOGICAL EFFECT) (CARCINOGENS)

ANTONOV, A.M.; STETSENKO, A.G.

Use of the small parameter method in calculating a hypersonic
gas flow past plane objects. Pribl. metod. resh. diff. urav.
no.1:3-10 '63 (MIRA 18:2)

ACCESSION NR: AP4012587

S/0021/64/000/002/0188/0193

AUTHOR: Antonov, A. M.

TITLE: Calculation of the flow around axis-symmetric bodies of a supersonic stream of gas (second approximation)

SOURCE: AN UkrRSR. Dopovidi, no. 2, 1964, 188-193

TOPIC TAGS: gas flow, supersonic gas stream, perturbation

ABSTRACT: Equations of the second approximation of the supersonic theory of small perturbations (A. M. Antonov, M. M. Sidlyar, Dopovidi AN UkrRSR, 1961, 1556) are reduced to a single nonlinear differential equation of the second order by introducing a current function. As a corollary, the case of flow around infinite cones is considered and approximate solutions are given for the resulting equation. Simple analytical relations are given for the determination of the inclination of the cone and of the impact wave, taking into account the solution of equations of the second approximation. Numerical computations show that if the second approximation is taken into consideration the possibility arises of extending the application of the supersonic theory of small perturbations

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ACCESSION NR: AP4012587

to flow around thicker cones than those for which calculations could be carried out within the framework of the theory of the first approximation.

ASSOCIATION: Ky*ivskiy Derzhavny*y Universy*tet (Kiev State University)

SUBMITTED: 01Apr63

DATE ACQ: 03Mar64

ENCL: 00

SUB CODE: AI

NO REF SOV: 004

OTHER: 002

Card 2/2

51086-53 ENT(1)/EXT(1)/SWC(V)/PCB(L)/EWA(1) Ed-1/P-15 KW
ACCESSION NR: AP5011785 UR 0198/65/001/004/0092/0096

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R

AUTHORS: Antonov, A. M. (Kiev); Zavadskiy, Yu. V. (Kiev)

TITLE: Flow around blunt cones in a hypersonic gas stream

SOURCE: Prikladnaya mekhanika, v. 1, no. 4, 1965, 92-96

TOPIC TAGS: hypersonic flow, conical flow, gamma function, inviscid flow, approximation method, differential equation, Mach number

ABSTRACT: An approximate solution was obtained for the flow around a conical body in hypersonic flow, using the theory of small perturbations. The stream function is defined by

$$\psi_1 = x^2 f(\theta),$$

where $\theta = r/x$. A simplified differential equation is obtained for the flow

$$F'' - \frac{x}{\theta} F' + \frac{2}{\theta} \theta^{x-1} + kC_1 = 0,$$

$$B = \frac{A}{C_1}; \quad A = \frac{2xK^2 - (x-1)}{(x+1)K^2}$$

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 ACCESSION NR: AP5011785

by introducing the first approximation stream function f , such that $f = C_1(\theta - 1) + C_2$ and the boundary conditions

$$\left. \begin{aligned} f(1) = C_1 = \frac{1}{2} \\ f'(1) = C_2 = \frac{(x+1)K^2}{2 + (x-1)K^2} \end{aligned} \right\} 1$$

An analytic solution is obtained for F , and the following expression is given for the drag coefficient C_p

$$C_p = \frac{2}{x} \left(\frac{A}{\theta_0^2} - \frac{1}{K^2} + \tau' \frac{A}{C_1} \frac{x}{\theta_1^{x-1}} C_1 \right),$$

up to second approximation. Numerical results are given for cone angles 20-30° and Mach numbers 3-6. It is shown that even up to a second approximation the hypersonic perturbation theory gives values for C_p whose magnitudes diverge considerably from exact calculations as the cone bluntness is increased. The pressure distributions, however, are in better agreement with the exact calculations.

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L 51086-65

ACCESSION NR: AP5011785

tions. Orig. art. has: 21 equations and 1 table.

ASSOCIATION: Kiyevskiy gosudarstvennyy universitet (Kiev State University)

SUBMITTED: 26Oct64

INCL: 00

SUB CODE: MB

NO REF SOV: 003

OTHER: 002

Card 3/3

ANTONOV, A.M., prof.; KARPOL', G.G., dozent

Activity of the Saratov Province Scientific Medical Society of
Pathoanatomists. Arkh. pat. 27 no. 12:82-85 '65.

(MIRA 18:12)

1. Predsedatel' Saratovskogo oblastnogo nauchnogo meditsinskogo
obshchestva patologoanatomov (for Antonov). 2. Sekretar'
Saratovskogo oblastnogo nauchnogo meditsinskogo obshchestva
patologoanatomov (for Karpol').

L 27414-66 EWI(1)/ENP(m)/ENA(d)/ENA(1) RM

ACC NR: AP6012551

SOURCE CODE: UR/0040/66/030/002/0347/0352

AUTHORS: Antonov, A. M. (Kiev); Kheyz, U. D. (Princeton)

70
B

ORG: none

TITLE: Blunt body flow solution in hypersonic gas flow

SOURCE: Prikladnaya matematika i mekhanika, v. 30, no. 2, 1966, 347-352

TOPIC TAGS: gas flow, hypersonic flow, shock wave, approximation method, blunt body

ABSTRACT: An approximation method is outlined for calculating the flow over very blunt bodies. It consists of an iteration method applicable to two-dimensional as well as axially symmetric bodies. The flow velocity u and v normal and parallel to the surface respectively, the pressure p , and the density ρ are expanded in powers of ϵ

$$\epsilon = \frac{\gamma - 1}{\gamma + 1} + \frac{2}{(\gamma + 1) M_\infty^2}$$

or,

$$\frac{u^*}{U_\infty} = \epsilon u(x, r) + O(\epsilon^2), \quad \frac{v^*}{U_\infty} = \epsilon^2 v(x, r) + O(\epsilon^3)$$

$$\frac{p^* - p_\infty}{p_\infty U_\infty^2} = 1 + \epsilon p(x, r) + O(\epsilon^2), \quad \left(\frac{p_\infty}{\rho^*}\right)^{-1} = \frac{1}{\rho} + \epsilon \sigma(x, r) + O(\epsilon)$$

The inner and outer solutions are given separately for both the two-dimensional and the axially symmetric cases. For example, the outer solution for the pressure in the

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ACC NR: AP6012551

two-dimensional case yields

$$P^*(r, y) = G(y) - \left(\frac{A}{y^3} - \frac{A+B}{A^2} \right) \left(\frac{A^2 r^2}{2} + \frac{3}{4} B r^4 \right) + \dots$$

and for the axially symmetric case,

$$P^*(r, r) = G(r) + \frac{A}{3} \left(1 + \frac{2}{3} \frac{B}{A} \right) \frac{r^3}{r} - \frac{10}{9} A^2 B \frac{r^5}{r^4} - \frac{A^3 r^7}{2 \cdot 4} + \dots$$

The above method is then applied to the case of a plane circular disk in hypersonic flow. Orig. art. has: 54 equations and 1 diagram.

SUB CODE: 20/ SUBM DATE: 25Mar65/ ORIG REP: 001/ OTH REF: 001

Card 2/2 *JD*

ANTONOV, A.N.

USSR/ Miscellaneous - Foundry processes

Card 1/1 ; Pub. 61 - 3/23

Authors ; Antonov, A. N.

Title ; Casting of pig iron cylinders in semi-fixed forms

Periodical ; Lit. proisv. 3, 6-9, May-June 1954

Abstract ; The casting of pig iron cylinders, used as drying cylinders and pressing blocks in paper and textile manufacturing machines, in semi-fixed chamotte molds, with considerable saving in labor and molding materials, is described. The preparation of casting forms, preparation of rods for casting, filling up of forms and extrusion from the forms, are explained. Tables; drawings.

Institution : ...

Submitted : ...

ANTONOV, A.N.

Optimum heating process in cupola smelting with a forehearth.
Lit.proizv. no.9:26-27 D'54. (MLRA 8:2)
(Cupola furnaces)

ANTONOV, A.N., inzhener.

Casting drying-drum hoods used in papermaking machinery. Lit.
proisv. no.6:1-2 Je '56. (MLRA 9:8)
(Iron founding) (Papermaking machinery)

ANTONOV, A.N.

High precision iron casting in semipermanent molds. Lit. proisv.
no.7:1-5 Je '60. (MIRA 13:7)
(Iron foundings) (Precision casting)

ANTONOV, A.V.

Use of the pulse method in studying the diffusion and slowing down
of neutrons in various media and their multiplication in uranium
graphite heterogeneous systems. Trudy Fiz. inst. 14:147-223 '62.
(Neutrons) (Nuclear reactors)

KUGEL', R.V., kand.tekhn.nauk; ANTONOV, A.P., kand.tekhn.nauk; SIDOROV, N.A.,
inzh.

Wear of parts of the running gear of crawler tractors in case of
various soil conditions. Trakt. i sel'khoz mash. no.2:9-12 P '65.

(MIRA 18:4)
1. Gosudarstvennyy soyuznyy nauchno-issledovatel'skiy traktorny
institut.